

AMENDMENTS

In the Claims

1-94. Cancelled

95. (Currently Amended) An apparatus ~~configured to customize a product and comprising a computer-readable storage medium encoding logic blocks of a program code configured to be executed by a processor, the logic blocks~~ comprising: a computer-readable storage medium comprising a program code encoded therein,

wherein

the program code is configured to be executed by a processor,

the program code comprises a plurality of logic blocks,

the logic blocks are configured to customize a product, and

the logic blocks comprise

a first logic block configured to create a customizable product, wherein
the customizable product ~~including~~ comprises a set of one or
more attributes ~~to define , and~~
the set of one or more attributes defines the customizable
product;

a second logic block configured to assign the customizable product to a
customizable product class, wherein
the customizable product class is a parent class of a hierarchy
~~defining ,~~
the hierarchy is configured to define a configurator, ~~[[and]]~~
the configurator is configured to reference the hierarchy to permit
~~a user to configure a~~ configuration of the customizable
product ~~for purchase , and~~
the configuration of the customizable product is performed
using a customizable user interface (“UI”);

a third logic block **configured** to add a component product class to the customizable product class, wherein
the component product class is a subclass of the customizable product class, **[[and]]**
the component product class comprises one or more component products ~~selectable for adding~~ ,
each of the one or more component products is configured to be selected using the customizable UI, and
each of the one or more component products is configured to be added to the customizable product , **if the each of the one or more component products is selected using the customizable UI**;

a fourth logic block **configured** to provide natural language templates, wherein
each template contains a fill-in-the-blank sentence in a natural language syntax;

a fifth logic block **configured** to add a customizable class rule to the customizable product class, wherein
the customizable class rule prohibits the selection of one or more component products for addition to the customizable product after selection of a specific component product for addition to the customizable product, and
the customizable class rule is generated by
selecting one or more natural language templates, and
filling in each blank in each selected template with one or more of
[[said]] the customizable product class,
[[said]] the component product class,
an attribute of **[[said]] the** customizable product class,
an attribute of **[[said]] the** component product class,

a mathematical expression, and
a non-selected natural language template; and
a sixth logic block **configured** to map ~~[[a]]~~ **the** customizable ~~user~~
interface (“UI”) UI to the customizable product class, **wherein**
the customizable UI **is configured** to provide access structure to
the configurator.

96. **(Currently Amended)** The apparatus of claim 95, wherein
the component product class **includes comprises** component product subclasses.
97. **(Currently Amended)** The apparatus of claim 95, wherein
the component product class **inherits is configured to inherit** the attributes of the
customizable product class.
98. **(Currently Amended)** The apparatus of claim 95, further comprising:
a seventh logic block **configured** to add one or more component product classes
to a port; and
an eighth logic block **configured** to add the port to the customizable product
class, **wherein**
the port **is configured** to allow the configurator to classify a group of
component products.
99. **(Currently Amended)** The apparatus of claim 98, wherein
the port **includes comprises** a cardinality attribute, **and**
the cardinality attribute **is configured to be used** to constrain the number of
component products ~~[[,]]~~ **that are** associated with the port **and** selectable
by the configurator.
100. **(Currently Amended)** The apparatus of claim 99, wherein
the cardinality attribute **includes comprises** a minimum cardinality and a
maximum cardinality,

- the minimum cardinality **is configured** to constrain the minimum number of component products to be added by the configurator, **and** the maximum cardinality **is configured** to constrain the maximum number of component products to be added by the configurator.
101. **(Currently Amended)** The apparatus of claim 99, wherein the cardinality attribute ~~includes~~ **comprises** a default cardinality, **and** the default cardinality defines a quantity of the component product class to be added by the configurator.
102. **(Currently Amended)** The apparatus of claim 95, wherein the class rule ~~includes~~ **comprises** a collection of expressions, **and** the expressions ~~include~~ **comprise**
a property path,
a constant, and **[[a]]**
an operator.
103. Cancelled
104. **(Currently Amended)** The apparatus of claim 95, wherein the class rule is a subclass of the customizable product class.
- 105-112. Cancelled
113. **(Currently Amended)** The apparatus of claim 95, wherein the component product class ~~includes~~ **comprises** a static attribute, **and** the static attribute is not associated with a parent class.
114. **(Currently Amended)** The apparatus of claim 95, wherein the component product class, customizable class rule, and customizable UI are object oriented classes.

115. **(Currently Amended)** The apparatus of claim 95₂ wherein the customizable product comprises ~~[[a]]~~ **an** object oriented structure.
116. **(Currently Amended)** The apparatus of claim 95₂ wherein the customizable product ~~includes~~ **comprises** versioning.
117. **(Currently Amended)** The apparatus of claim 95₂ wherein the configurator is stored in a data store.
118. **(Currently Amended)** The apparatus of claim 95₂ wherein the customizable UI is configured to allow customization of a presentation of component products.
119. **(Currently Amended)** The apparatus of claim 118, wherein the customizable UI is configured to be customized for a ~~particular~~ product line.
120. **(Currently Amended)** The apparatus of claim 118, wherein the customizable UI is configured to be customized for a ~~particular~~ customer base.
121. **(Currently Amended)** The apparatus of claim 95₂ wherein the customizable UI is configured to allow a runtime session to dynamically generate a UI from a custom UI class.